

CLAIMS

1. Method for mounting a car drive machine (9), especially for elevators having no machine room, the drive machine (9) being to be affixed to a structure in the hoistway, characterised in that it successively consists of positioning said drive machine (9) on a support (23) positioned so as to be suitably on the top of the elevator car (7) and being able to move transversally, to lift the elevator car (7) until the machine is slightly above said structure, to move the support (23) with the machine (9) transversally and outwardly so as to position the machine (9) immediately above its fixing position, to lower the car (7) so as to place and fix the machine (9) on said structure, and to bring said support (23) back transversally so as to free it from the machine (9).

2. Mounting method according to claim 1, the drive machine (9) appearing in the form of a longitudinal shaping block intended to be fixed to the top of two counterweight guide rails (3) and a car guide rail (1) on one side of the elevator hoistway (5), characterised in that it successively consists of positioning said drive machine (9) on a flat support (23) positioned so as to be suitably on the top of the elevator car (7) and being able to move transversally, to lift the elevator car (7) with the aid of an auxiliary lifting device (53) until the machine is slightly above the top of said guide rails (1, 3), to move the flat support (23) with the machine (9) transversally and outwardly so as to position the machine (9) immediately above its fixing position on said rails (1, 3), to lower the car (7) so as to place and fix the machine (9) on the rails (1, 3), to bring said flat support (23) back transversally so as to free it from the machine (9) and subsequently remove it from said car for a new usage.

3. Mounting method according to claim 2, characterised in that said flat support (23) is a table or frame provided with a plate (29) possibly pierced at the passage location of the fixing elements of the machine to the rails (1, 3), said plate (29) being mounted sliding transversally on the table or frame.

4. Mounting method according to claim 2 or 3, characterised in that said table or frame (23) is fixed to a rigid element of the car, for example to the upper crosspiece (25) of the car notch.

5. Mounting method according to one of the preceding claims 2-4, characterised in that said auxiliary lifting device (53) is a man-lift winching gear connected between the car and the hoistway ceiling.

6. Mounting method according to one of the preceding claims 2-5, characterised in that the machine (9) is fixed directly to the rails (1, 3) by means of fastening brackets.

7. Mounting method according to one of claims 2 to 5, characterised in that the machine (9) is fixed onto a support frame (11) fixed to the top of the rails (1, 3).

8. Mounting method according to claim 7, characterised in that the machine (9) is secured to the support frame (11) by means of screws directly in attack in its body.

9. Mounting method according to claim 7 or 8, characterised in that the machine (9) is of longitudinal shape and is made up of a median cylindrical pulley block (13), the motor (15) being attached to said pulley at one extremity and the brake (17) at the other extremity, this machine being positioned on said sliding plate (29) via its pulley block (13) placed on the plate (29), the respective motor and brake fastening feet (19) laterally projecting with a small amount of play beyond the edge of the plate (29) and the rear edge of the pulley block (13)

resting against a rear stop fold (39) so that the machine (9) is prepositioned on the latter, the movement of the plate (29) being effected over a given length.

10. Mounting method according to one of claims 7 to 5 9, characterised in that the fixing screws of the machine (9) for fixing the latter to said support frame (11) are in attack on the respective brake and motor feet (19) so that when the machine (9) is placed or fixed on the frame (11), the plate (29) can be removed by merely moving the 10 latter in the residual space between the pulley block (13) and said motor and brake fastening feet (19).

11. Machine-installation table to implement the method defined according to one of the preceding claims 3- 10, characterised in that it includes a car-mounted frame 15 (23) and a slidable machine-support surface (29).

12. Machine-installation table according to claim 11, characterised in that said car-mounted frame (23) is fixed to a rigid element of the car, for example to the upper crosspiece (25) of the car notch.

20 13. Machine-installation table according to claim 11 or 12, characterised in that said slidable machine-support surface (29) is a table provided with a plate (29) possibly pierced at the passage location of the fixing elements of the machine to the rails (1, 3), said plate 25 (29) being mounted sliding transversally on the table or frame.

14. Elevator obtained by implementing the method defined according to one of the preceding claims.